

NAVISTAR, INC

DEFECT INFORMATION REPORT

TO: Manager
Engine Programs Group (6405J)
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460

REPORT ID: 16-BBI6-18050124-01
Revision.: -
Ref. Investigation.: -
Ref. AFC:-
Ref. VERR:-

FROM: Dave Polivka
Emissions Certification and Compliance
Navistar, Inc.
2601 Navistar Dr.
Lisle, IL 60532
Building 2-Floor 3-P29-1

DATE : February 9, 2016

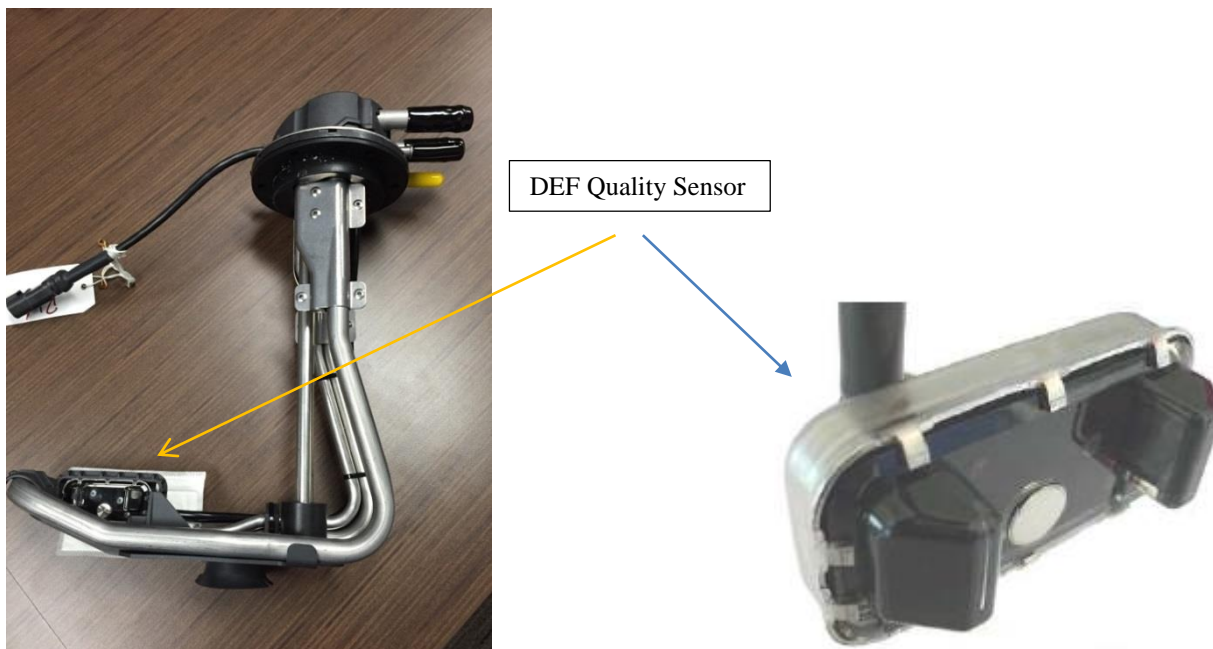
The following Defect Information Report is submitted in accordance with 40 CFR §1068.501. This report addresses a defect affecting the vehicle Diesel Exhaust Fluid (DEF) sensor assembly, specifically the DEF quality sensor.

[40 CFR §1068.501(d)(1)] MANUFACTURER CONTACT INFORMATION

Dave Polivka
Emissions Certification and Compliance
Navistar, Inc.
2601 Navistar Dr.
Lisle, IL 60532
Building 2-Floor 3-P29-1
(331)-332-5662

[40 CFR §1068.501(d)(2)] DEFECT DESCRIPTION

The DEF sensor assembly is located in the DEF tank and consists of three individual sensors. They provide information on DEF level, temperature and quality. The DEF quality sensor is an optical sensor which measures infra-red absorption characteristics of the DEF to make a concentration determination. In the event sensor logic determines an irrational reading (such as debris in the optical path) a particular fault code is set, per OBD requirements. For currently unknown reasons, this rationality fault code is being set by nearly all DEF sensor assemblies.



[40 CFR §1068.501(d)(3)] DESCRIPTION OF VEHICLES/ENGINES AFFECTED

<u>Engine Family Name</u>	<u>Model Year</u>	<u>Engine Model</u>	<u>Engine Plant Ship Dates</u>
GNVXH05700SA	2016	N9/10	2016
GNVXH07570SB	2016	N13	2016

[40 CFR §1068.501(d)(4)] NUMBER OF ENGINES ESTIMATED TO HAVE DEFECT

Production has just started for the 2016 model year. The volumes listed below are all estimates and the number of affected engines will increase as production continues.

<u>Engine Family Name</u>	<u>Number of Engines Affected</u>	<u>Estimated Vehicle Production through February 2016</u>	<u>Percent of Family Affected</u>
GNVXH05700SA	All	553	100%
GNVXH07570SB	All	451	100%

[40 CFR §1068.501(d)(5)] EVALUATION OF EMISSIONS IMPACT

This defect has no impact on emissions. It does set a rationality fault, 3516.12-SE6996. When set, this fault disables DEF quality detection and any resulting inducements.

[40 CFR §1068.501 (d)(6)] ANTICIPATED MANUFACTURER FOLLOW-UP

Navistar will deactivate fault 3516.12-SE6996. Additionally, Navistar will disable any logic which would affect other faults as a result of this specific deactivation. These actions will allow the SCR system, inducements, and all other diagnostics except DEF quality sensor rationality detection, to function as designed. Once a permanent fix has been identified, Navistar will consider methods of implementing the follow-up.

Dave Polivka
Emissions Certification and Compliance
331-332-5662